Preface

Thank you for purchasing the **SAN JOSE NAVIGATION** WebTrac-4. This deliberately edited manual is to introduce the WebTrac-4 with the complete technical data and the instructions showing how to operate the device smoothly and correctly. Make sure to read this manual carefully before using this product. Most problems could be solved through the explanations and the troubleshooting tips. Once you finish reading it, keep it handy for necessary reference.

Please note that specification and information are subject to change without prior notice in this manual. Any change will be integrated in the latest release. The manufacturer assumes no responsibility for any errors or omissions in this document.

This manual is divided into the following chapters:

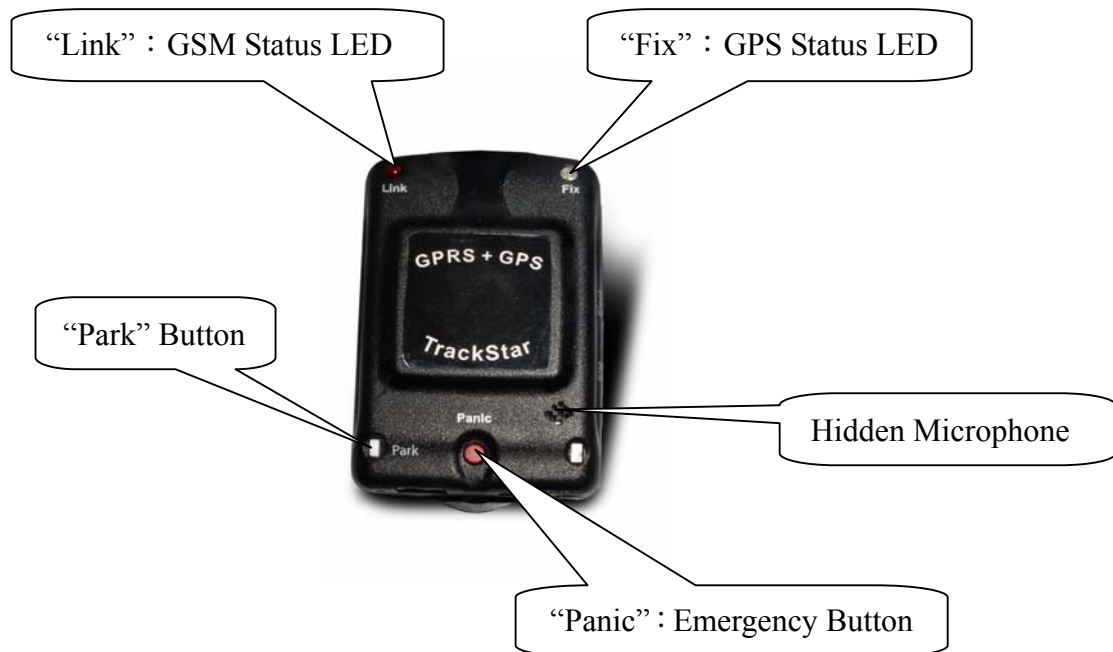| Chapter	Content	Information
1	Hardware Description	Brief Introduction of Hardware Parts and Status
2	Specifications	Specifications of modules used in WebTrac-4
3	Getting Started	General Installation & Operation Guide
4	Functions	Complete Functions Description
5	Setup	Detail Setup SMS Messages Information
6	Respond SMS Messages	Detail Respond SMS Messages Explanation
7	Warranty	After Sales Services & Limited Warranty for this Product
8	APN table	The referential tables for APN setup

Version 1.21 (2005/04/22 Released)

SANAV™

Table of Contents

SANAV™

Chapter1 Hardware Description

1.1 Front face

"Link"：GSM Status LED

"Fix"：GPS Status LED

"Park" Button

Hidden Microphone

"Panic"：Emergency Button

1.2 Side Face

ON/OFF Switch

Eject Button

SIM Card Slot

1.3　Bottom Face

Headset Plughole

Pwr：For 5V DC connector

Com Port：Reserved for Engineering Test only

1.4　Rear Face

Model Name and S/N Number
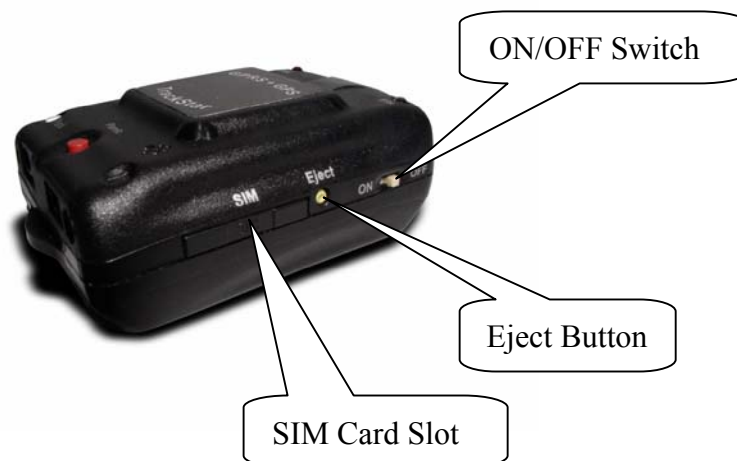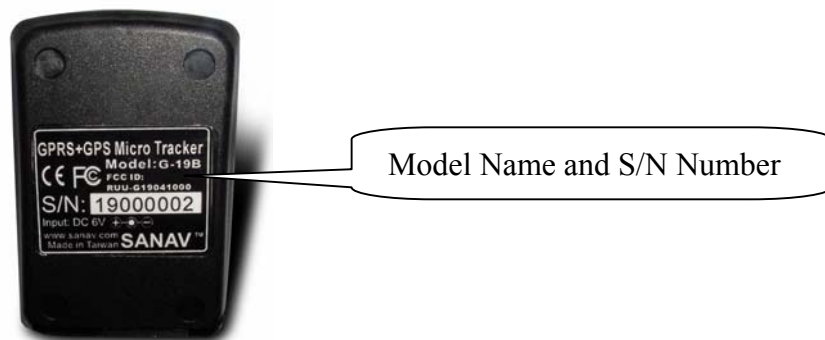
Chapter2 Specifications

● GSM Module :

· Dual Band (EGSM 900/1800 Mhz)
· ETSI GSM Phase 2+ standard Class 4 (2W @ 900Mhz) Class 1 (1W @ 1800/1900Mhz)

GPS Receiver :

· Acquisition time :

1. Reacquisition < 2sec.
2. Cold < 49sec. TTFF(Time To First Fix)
3. Warm < 35 sec. TTFF
4. Hot < 10sec. TTFF

· Accuracy :
Position 15 meters RMS without SA
Velocity 0,1m/s without SA
SA Speed 0,1 km/h without SA

● Environmental :

· Operating Temperature :   -30°C to +70°C
· Storage Temperature :   -40°C to +85°C
· Relative Humidity :   5% to 95 %, non-condensing

● Battery Life :

10 hours (stand-by mode)

● Size :

66(L)x43(W)x22(H) mm

● Weight :

87g

Chapter 3 General Function

WebTrac-4 is using the GPRS service to upload the data containing latitude, longitude, speed and time to an assigned web server. It is specially designed for the intensive tracking applications, such as fleet management and life security.

Note1：When GPRS network is not available, SMS will be sent instead.

APN Connection

Uploading data

GSM Base Station

Transmitting data to GSM
Base Station

URL/SMTP Connection

Web Server

SMS (Text Message) to
cell phone

URL/E-mail address via Internet

WebTrac-4

cell phone
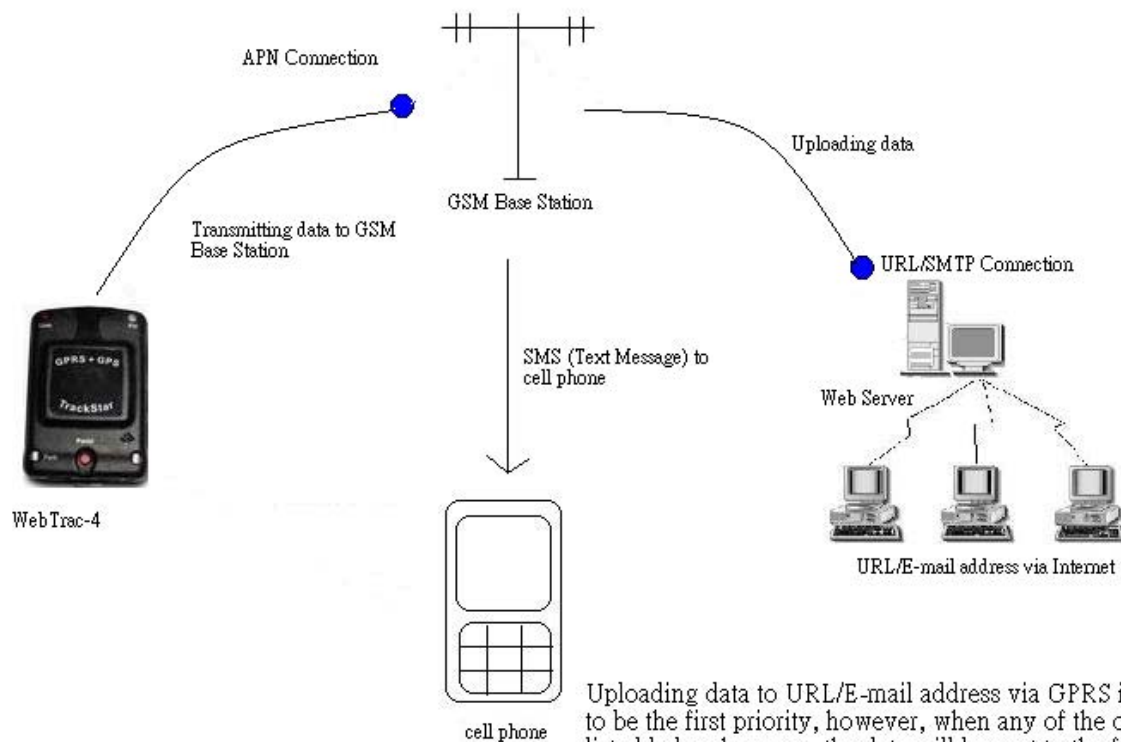
Uploading data to URL/E-mail address via GPRS is considered to be the first priority, however, when any of the circumstances listed below happens, the data will be sent to the first number of WebTrac-4's contacts list via SMS (Text message) instead, they're:

1. When the APN is invalid.
2. When the URL/SMTP is invalid.
3. When the APN/SMTP is temporarily unavailable.

Chapter 3 General Functions

3.1 Features

● **Panic**

· When in emergency circumstance, Press Panic button and hold for more than 2 seconds, and WebTrac-4 will sound 5 buzzes for response. WebTrac-4 will then upload the GPS data to the assigned IP/domain or to the defined E-mail address depends on the router's setting, (please refer to chapter 5,6 for further information) via GPRS service per 30 seconds for 99 times, and it will also send the emergency SMS message to all the numbers in the contacts list (maximum of 5 sets, please refer to chapter 5.8 for setting contacts list). After that, WebTrac-4 is going to dial the first cell phone number in the contacts list, then the monitor can understand the circumstance surrounds the carrier via hearing from either the hidden microphone or headset. If the number is busy or can't be reached, WebTrac-4 will dial the next number in the contacts list instead. This is to make sure the monitor does receive the SOS messages from the carrier. We strongly recommend that set the first number in the contact as the modem number. In this mode, any attempts to change any setup are rejected. And it's regarded to the first priority, auto-report and parking mode are going to disabled.

● **Park/Geofencing Protection**

· There are two methods to activate WebTrac-4 Parking mode.

Mode 1:

You can press the "Park" button on the WebTrac-4 when leaving a vehicle. After the park function is activated, it will have three buzzes for noticing carrier that it's in the parking mode. After that, WebTrac-4 will stop the auto report function. If it is in the GPRS coverage then it will upload a confirmation data to either the assign IP/domain or the E-mail address. If the GPRS is not available, it will send a SMS to the first numbers in the contacts list instead. While the GPS is not fixed, you will not be able to activate the Park function, and it will have two buzzes to alert you.

Mode 2:

You can use any cellular phone to send a SMS message for activation (Please check the sub-chapter 5.7 for more information). After the park mode is activated, WebTrac-4 will stop the auto report. It will send a confirmation SMS back to the cellular phone. At the same time, it will also upload a confirmation data to the assigned IP/domain or the defined E-mail address. If the GPRS is not available, it will send a SMS to the first numbers in the contact list instead. While the GPS is not fixed, Park function is not allowed.

· When WebTrac-4 has been moved from the original place and its speed is more than 2 nautical miles/hr, it will send the "Move" message containing GPS position to either the URL or 1st predefined number depending on the availability of GPRS. The interval is 45s and the total amount of data sent will be 50.

· Both pressing the button again and sending a "Park" command can deactivate the Park function, when press the park button to deactivate the parking mode it'll sound one buzz to notice you. When the parking mode is deactivated, auto report will be restarted if the monitor had set the auto report function before.

· Once GPS could not fix a position and the carrier tries to activate the Park function, WebTrac-4 will reply a failure message to the commander.

· Park function will not be allowed once the Panic is activated.

● **Voice**

· You can setup both dual-way communication or one-way communication to converse to the user or monitor. In the dual-way communication, the carrier has to insert the headset to the headset plughole in order to know if there's anyone calling him/her. In the dual-way communication, press park button to answer the phone, hung it up by pressing park button again. Otherwise it's going to wait for few seconds and pick up the phone automatically. Please note that, if the call is picked up automatically, pressing park button is not going to hang up the phone.

· You can also set it up to one-way communication. When the monitor dials its number. It'll pick up the phone automatically without carrier's consciousness in order to understand the carrier's surrounding.

· The user is unable to use this device to call out.

· The sensitivity of the hidden microphone is -24 +/-3dB. It is simply able to receive the voice with normal speaking volume within the range of 3m~5m.

● **Auto**

· You can set up auto report function to receive a regular report, note that the default setup is off, the monitor has to set up a interval and the message amount first, and the auto-report function will be disabled once the parking and the panic functions are activated. Please refer to chapter 5.9 for detailed information.

3.2 Applications：

● **Fleet Management**
● **Vehicle Security and Recovery**
● **Asset tracking**
● **Yacht watching**
● **Covert Tracking**

Chapter 4:Easy start

This chapter provides you easy methods and fundamental operations for you to use it simply and easily. Please follow the instructions as below. As regard to the advanced manipulation, please refer to chapter 5 and 6 for further information.

4.1 After opening the box, as the figure 4.1. below, you should find the following items placed in the box, they're:

- A WebTrac-4.
- A spared battery.
- A cigar charger for the use in a car.
- An AC to DC wall charger for home or office uses.
- An adaptor for converting the flat pin (110V) of wall charger to the round pin (220V).
- 5 sucking discs and a cradle for your install the WebTrac-4 on the glass or windscreen.
- A disc containing user manual.

Figure 4.1

4.2 Take out the WebTrac-4 and the AC to DC charger, insert the extra plug if the original plug doesn't fit the outlet on the wall. (please see the figure 4.2.1.). Plug in the outlet and connect the DC plug with Pwr hole for 90 minutes for charging WebTrac-4 as the figure 4.2.2.

Figure 4.2.1

Figure 4.2.2

4.3 Prepare a full-subscript SIM card with pin code disabled. As the figure 4.3, press the eject button, take out the SIM card slot and place the SIM card on the slot and slide it back with care.

Figure 4.3

4.4 Move the WebTrac-4 to an opened space and view the clear sky. Switch the power on. First, the red LED is blinking. When it becomes still, it means WebTrac-4 has hooked up the GSM network. About one minute later, the blue LED lights on and it means the WebTrac-4 has GPS fixed up, as seen in the figure 4.4.

Figure 4.4

Star Programming WebTrac-4

4.5 Use your cell phone to send a message as below to WebTrac-4 to obtain the Imei code for logon on our website in order to read the GPS position on Internet (please see 5.14). This is also helping you to verify if the WebTrac-4 is correctly functioning.

♯ Username，0000，Imei＊

If the command has been transferred successfully, WebTrac-4 will send an imei code to your cell phone otherwise a failure message will be sent instead.

4.6 Then send a SMS messages (the format is seen below) to set up the APN (Access Point Name) that is provided by your GSM provider. The default APN is only applicable for the users in Taiwan. If you don't know what your APN is, please refer to chapter 8 for the APN table or contact your local mobile phone service.

♯ Username，0000，3，your APN，user，password＊

After sending the SMS command, WebTrac-4 will response a message to your cell phone to see if the WebTrac-4 does receive the command. *Please note that the WebTrac-4 is not able to determine the validity of the APN*.

4.7 Use your cell phone to send a SMS command seen below to predefine a cell phone number into WebTrac-4.

♯ Username,0000,5,cellular phone number*

After sending the SMS command, WebTrac-4 will response a message to your cell phone to see if the setup is successful. When either APN or URL is incorrect or GPRS/URL is not available, the WebTrac-4 will not be able to upload the data to the website. In any case mentioned above, the WebTrac-4 will send a SMS instead containing GPS position to the 1st predefined number after 5 failed tries on uploading the data. Please refer to chapter 5.8 for more information about predefining phone numbers.

4.8 Next, send a message as below to WebTrac-4 to program the regular auto-report, WebTrac-4 sends a report every minute for 99 times.

♯ Username，0000，6，60，99＊

After sending above SMS command, the WebTrac-4 will also send a confirmation message to your cell phone to see if the setup is successful. If both APN and Auto Report are setup successfully, you should be able to read the GPS information from our website by proceeding the next step. If only the Auto Report and predefining number (5.7) setups are successful, you will not be able to read the GPS position on our web page provided. Instead, you should have a SMS after about 7 minutes.

4.9 Surf to following website **http://www.sanav.com/eric/gprs_read.aspx** and key in the Imei code as the figure 4.9 shown to see if WebTrac-4 uploads data successfully.
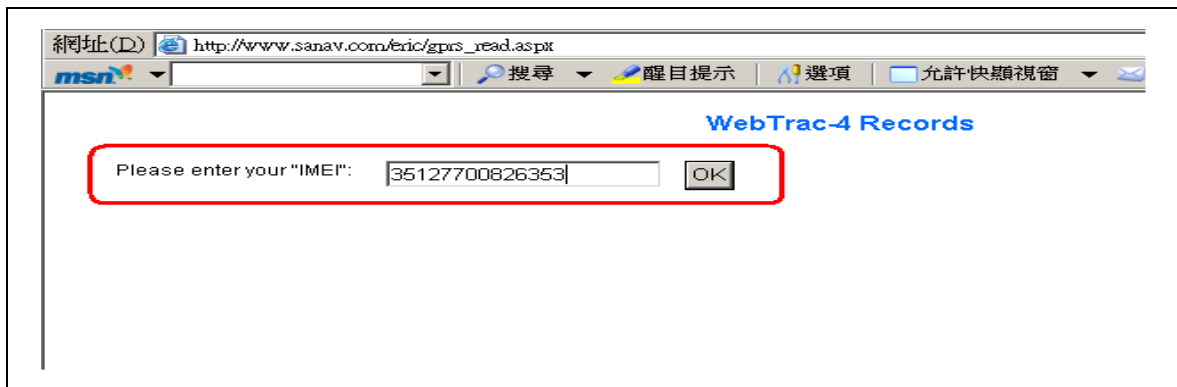
Figure 4.9

4.10 Surf the website, you can see that WebTrac-4 has uploaded the data on the web page, which contains the imei code, GPRMC information (please refer to chapter 6 for detailed information about GPRMC), status and the latest uploading time as see in the figure 4.10. You will only see the data on our website when both APN and URL are correct.
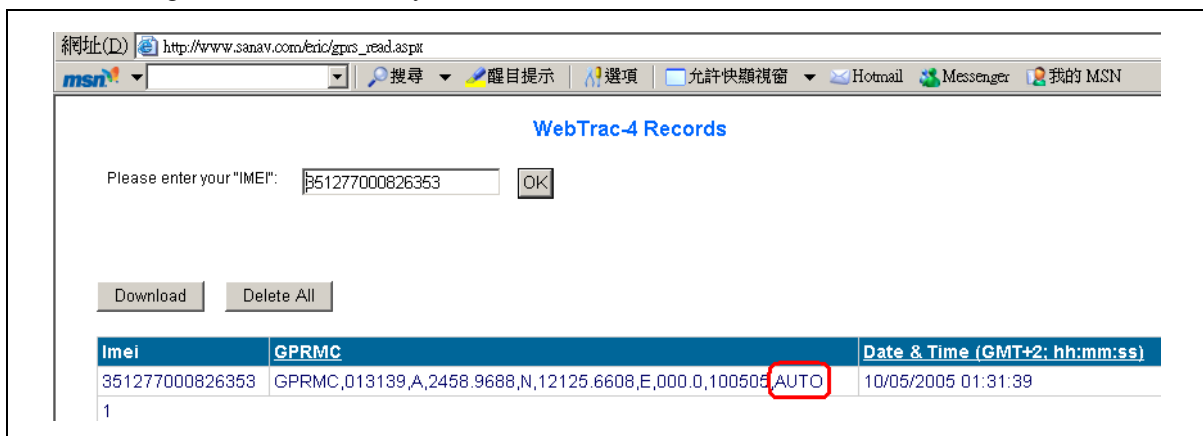
Figure 4.10

4.11 Press the Park button, it will sound 3 "beep", it means Park mode has been enabled. Check the website to see if the latest status shows "PARK" as the figure 4.11. You will only see the data on our website when both APN and URL are correct.
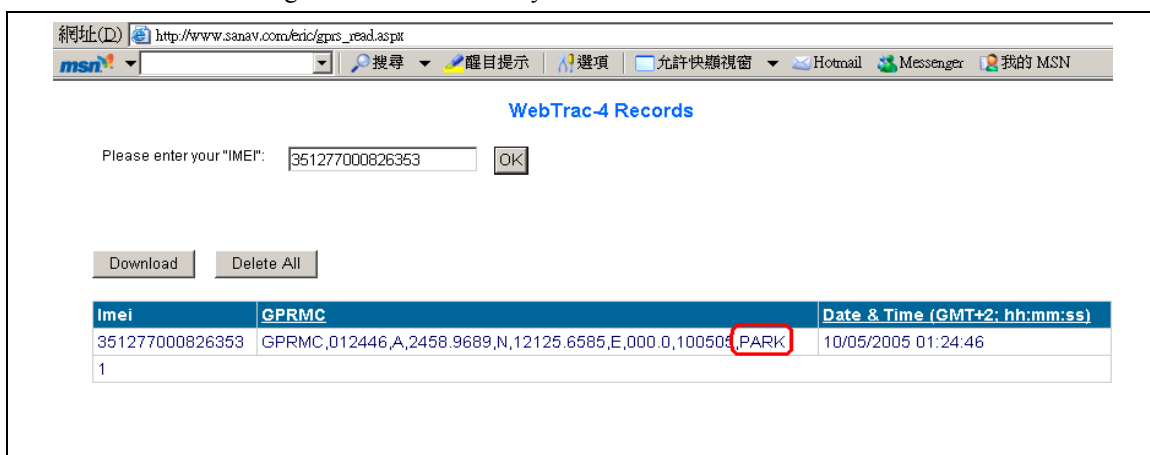
Figure 4.11

4.12.Press the Park button again, it sounds 1 buzz, it means Park mode has been disabled, Check the website to see if the latest status shows " UNPA " as the figure 4.12. You will only see the data on our website when both APN and URL are correct.
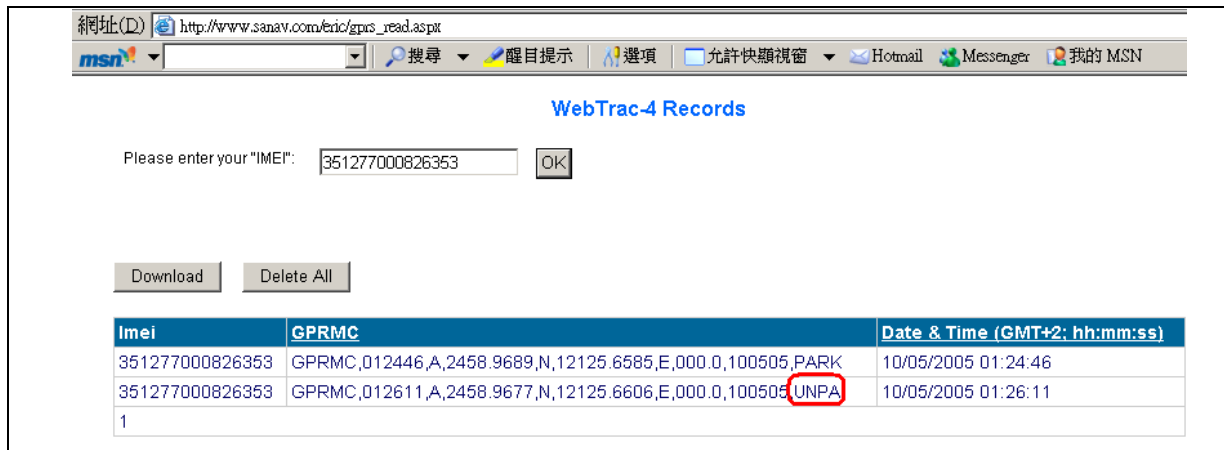
Figure 4.12

4.13 Press "Panic" button for 2 seconds and it'll sound 5 "beep". Check the website. **http://www.sanav.com/eric/gprs_read.aspx** to see if WebTrac-4 uploads a message and it status is "SOS" as the figure 4.13; WebTrac-4 will also send a message to all the predefined cell phone numbers (Chapter 5.7) if you have predefined the number(s).
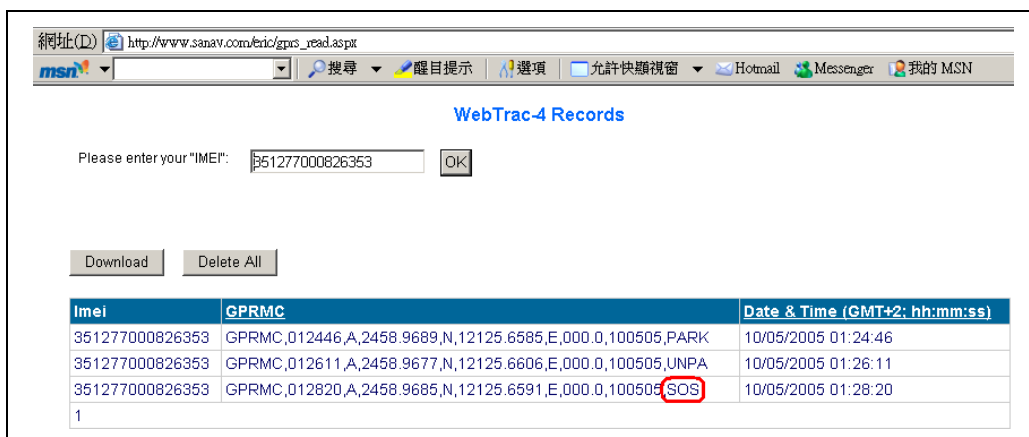
Figure 4.13

4.14 Prepare a headset and plug it into WebTrac-4's headset plughole as the figure 4.14 shown. Dial the WebTrac-4's phone number, and you can head the rings from the headset. Press the Park button to pick up the call, now that communication between your cell phone and WebTrac-4 should be working. Make sure it works and press the Park button again to hang up the phone.

Figure 4.14

4.15 Unplug the headset from WebTrac-4, and use any phone to dial WebTrac-4 again. After about 10 seconds, the call is going to be picked up automatically. Now you can supervise the circumstance around the WebTrac-4 via the microphone embedded.

4.16 After that, WebTrac-4 is going to dial the first cell phone number of its contacts list. Wait for the call and then pick it up to see if the communication works.

4.17 Switch off the WebTrac-4 for restoring it into normal mode. Please refer to following chapters if you need advanced information or setting.

Chapter 5   Setup

WebTrac-4 currently provides 14 commands to setup. You can setup the WebTrac-4 by following the instructions shown in this chapter via SMS from a cellular phone. Key the specific SMS message in your cellular phone as the instruction and send it to the phone number of WebTrac-4. The setup messages are showed in the following sections.

Note1: The default settings are shown as below.

    a.   Default WebTrac-4 ID is "Username", and please read Chapter 5.1 in order to change the ID.

    b.   Default password is "0000", and please read Chapter 5.2 in order to change the password.

    c.   There's no number in the default contact, and please read Chapter 5.8 in order to add the phone number.

    d.   Default setting of Auto Report is deactivated, and please read Chapter 5.9 in order to setup the auto regular report.

    e.   Default setting of Park is deactivated and please read Chapter 5.10 in order to activate the Park function.

    f.   Default setting of APN is only suitable for Taiwanese network and please read Chapter 5.3 in order to change the APN.

    g.   Default setting of IP/domain is **http://www.sanav.com/eric/gprs_read.aspx** and please read Chapter 5.4 in order to change the IP/domain.

Note2: Before doing any setup, please ensure WebTrac-4 is connected with the GSM network. The red LED must lights on. And please note that WebTrac-4 must not be under Panic mode.

Note3: While you are keying in any setup message, note that NO space is allowed between the characters in the SMS. Characters can be letters, commas or any signs.

Note4: Any setup message must be started with a "#" sign and ended up with a "*" sign.

Note5: Only when the password, username and setup message are correct, the WebTrac-4 will update information according to user's definition. If the command is not valid, a failure report is going to be sent to the commander cell phone.

5.1 Set up the username：

You can change the ID of WebTrac-4 by following the format below. No space is allowed between the characters. For example, if you send the SMS message shown in the example below to the WebTrac-4, you will change the ID from "Username" to "ason"

Setup format： ＃「username」，「Password」，「Function Code」，「New username」 ＊
Example：＃Username，0000，1，ason＊

The table 5.1.1 describes the meaning of each segment in the message above.

Text Keyed In SMS	Description
#	Start sign.
Username	Default ID of WebTrac-4
0000	✧ Default password. ✧ If you have changed the password, please use the updated one.
1	Mode 1 defines the ID setup
Ason	✧ New ID defined by the owner. ✧ At the maximum of 8 letters.
*	End sign.

__Table 5.1.1__

The table 5.1.2 shows each confirmation message reply after setup

Situation	Message Reply
Setup Succeeds	Username Setup OK.
Setup Fail	Username Setup Fail.
WebTrac-4 is in Emergency Mode	Username in emergency, ID setup not allowed.

__Table 6.1.2__

Note that the message reply shown in Table 5.1.2 will only be sent to cell phone that sends the SMS to do configuration. The caller ID of cellular phone must be activated in order to let the WebTrac-4 recognize the caller ID and response accordingly.

5.2 Change password

Use this SMS message example seen below to change the password of WebTrac-4. For example, by following the example below, you will change the default password, "0000" to a new password, "1111".

Setup format：＃「username」，「Password」，「Function Code」，「new Password」，「new Password」＊
Example：＃Username，0000，2，1111，1111＊

The table 5.2.1 describes the meaning of each segment in the message above.

Text Keyed In SMS	Description
#	Start sign.
Username	✧ Default ID of WebTrac-4. ✧ If you have changed the Username, please use the updated one.
0000	✧ Default password. ✧ If you have changed the password, please use the updated one.
2	Mode 2 defines to change the password
1111	New password
1111	Reconfirm the password
*	End sign.

Table5.2.1

The table 5.2.2 shows each confirmation message reply after setup

Situation	Message Reply
Setup Succeeds	Username Password Setup OK.
Setup Fail	Username Setup Fail.
WebTrac-4 is in Emergency Mode	Username in emergency, password not allowed.

Table 5.2.2

Note that the message reply shown in Table 5.2.2 will only be sent to cell phone that sends the SMS to do configuration. The caller's ID of cellular phone must be activated in order to let WebTrac-4 recognize the caller ID and response accordingly.

5.3 Set up the GPRS APN (Access Point Name)

For uploading the data to a web server, you must have a set of GPRS APN from your GSM network. Various GSM network provides different GPRS APN settings. Please check the referential tables for APN in the Chapter 8 before setup. If you could not find the name(s) of your GSM service provider(s), please ask the local mobile phone services about the APN settings. If the username and password of APN are indefinite or showed in blank, be sure to fill up with any six English letters, otherwise, the command will be invalid. You can follow the Setup Format below to setup the APN that is provided by your GSM network.

Setup format：＃「username」，「Password」，「Function Code」，「access point name」，「user」，「password」 ＊
Example：＃Username，0000，3，internet，user，password＊

The table 5.3.1 describes the meaning of each segment in the message above.

Text Keyed In SMS	Description
#	Start sign.
Username	✧ Default ID of WebTrac-4. ✧ If you have changed the Username, please use the updated one.
0000	✧ Default password. ✧ If you have changed the password, please use the updated one.
3	Mode 3 defines the APN
Internet	Name of APN
User	Username of APN
Password	Password of APN
*	End sign.

Table 5.3.1

The table 5.3.2 shows each confirmation message reply after setup.

Situation	Message Reply
Setup Succeeds	Username Setup OK. WebTrac-4 GPRS APN.
Setup Fail	Username Setup Fail.
WebTrac-4 is in Emergency Mode	Username in emergency, APN setup not allowed.

Table5.3.2

Note that the message reply shown in Table 5.3.2 will only be sent to cell phone that sends the SMS to do configuration. The caller's ID of cellular phone must be activated in order to let the WebTrac-4 recognize the caller ID and response accordingly.

5.4 Set up a host name (URL) to transmit data

This command (SMS) instructs the WebTrac-4 to access an URL or fixed IP for data transmission. If you send the SMS according to the example seen below to WebTrac-4, the URL "http://www.sanav.com/eric/gprs_read.aspx " will be assigned to receive the data sent from the WebTrac-4. Please note that the question mark "?" or any symbol is not allowed to be keyed in behind the URL. The WebTrac-4 will add the necessary symbol(s) on automatically.

Setup format：＃「username」,「Password」,「Function Code」,「Fixed IP or URL」＊
Example：＃Username，0000，4，http://www,sanav.com/eric/gprs.aspx＊

The table 5.4.1 describes the meaning of each segment in the message above.

Text Keyed In SMS	Description
#	Start sign.
Username	✧ Default ID of WebTrac-4. ✧ If you have changed the Username, please use the updated one.
0000	✧ Default password. ✧ If you have changed the password, please use the updated one.
4	Mode 4 defines to trasmit data to a specific website
http://www,sanav.com/eric/gprs.aspx	Default domain name, Sign "?" is not allowed to write in the area.
*	End sign.

Table 5.4.1

The table 5.4.2 is showing each confirmation message reply after setup.

Situation	Message Reply
Setup Succeeds	Username Setup OK. WebTrac-4 IP/Domain.
Setup Fail	Username Setup Fail.
WebTrac-4 is in Emergency Mode	Username in emergency, IP/Domain setup not allowed.

Table 5.4.2

Note that the message reply shown in Table 5.4.2 will only be sent to cell phone that sends the SMS to do configuration. The caller's ID of cellular phone must be activated in order to let the WebTrac-4 recognize the caller ID and to response accordingly.

5.5 Set up an E-mail address to receive the data

In addition to receiving data from URL, you can also obtain data from a specified E-mail address via GPRS service. After setting up the APN, you can also define an E-mail address to receive data by following the instruction below, please note that, since processing the transformation from APN to E-mail address might cost longer time, so receiving data from URL is still recommended.

Setup format：＃「username」，「Password」，「Function Code」，「Email address」＊

Example：＃Username，0000，12，sanav/com＊

The table 5.5.1 describes the meaning of each segment in the message above.

Text Keyed In SMS	Description
#	Start sign.
Username	✧　Default ID of WebTrac-4. ✧　If you have changed the Username, please use the updated one.
0000	✧　Default password. ✧　If you have changed the password, please use the updated one.
12	Mode 12 defines to setup an E-mail address data to a specific website
Sanav/com	The E-mail address that receives the data. Note that, Since sing "@" is not allowed to key in by SMS, so that we define the sign "/" to substitute for "@"
＊	End sign.

Table 5.5.1

The table 5.5.2 shows each confirmation message reply after setup.

Situation	Message Reply
Setup Succeeds	Username mail address Setup OK.
Setup Fail	Username mail address error.
WebTrac-4 is in Emergency Mode	Username in emergency, mail address setting not allowed.

Table 5.5.2

Note that the message reply shown in Table 5.5.2 will only be sent to cell phone that sends the SMS to do configuration. The caller's ID of cellular phone must be activated in order to let the WebTrac-4 recognize the caller ID and to response accordingly.

5.6 Set up the SMTP server

After setting up the E-mail address, you still have to setup a SMTP server so that the WebTrac-4 can use the SMTP server send E-mails. Setup SMTP by following instruction:

Setup format：＃「username」，「Password」，「Function Code」，「SMTP server」 ＊

Example：＃Username，0000，13，sanav.com＊

The table 5.6.1 describes the meaning of each segment in the message above.

Text Keyed In SMS	Description
#	Start sign.
Username	✧ Default ID of WebTrac-4. ✧ If you have changed the Username, please use the updated one.
0000	✧ Default password. ✧ If you have changed the password, please use the updated one.
13	Mode 13 defines to setup a SMTP server
Sanav.com	The SMTP server
*	End sign.

Table 5.6.1

The table 5.6.2 shows each confirmation message reply after setup.

Situation	Message Reply
Setup Succeeds	Username mail SMTP Setup OK.
Setup Fail	Username mail SMTP error.
WebTrac-4 is in Emergency Mode	Username in emergency, SMTP server setup not allowed.

Table 5.6.2

Note that the message reply shown in Table 5.6.2 will only be sent to cell phone that sends the SMS to do configuration. The caller's ID of cellular phone must be activated in order to let the WebTrac-4 recognize the caller ID and to response accordingly.

5.7 Set up the router for transmitting date either by URL/IP or E-mail

You can choose the router to transmit the data either by URL/IP or E-mail, please note that, make sure to finish setting up steps from 5.3 to 5.6, and all the parameters you set have been authentic, or no message will not be sent to either URL or E-mail address according to the router you setup. Please follow the instruction below for setup the router.

Setup format：＃「username」,「Password」,「Function Code」,「0 or 1」＊
Example：＃Username，0000，14，1＊

The table 5.7.1 describes the meaning of each segment in the message above.

Text Keyed In SMS	Description
#	Start sign.
Username	✧ Default ID of WebTrac-4. ✧ If you have changed the Username, please use the updated one.
0000	✧ Default password. ✧ If you have changed the password, please use the updated one.
14	Mode 14 defines to setup router.
0 or 1	0 represents to transmit data via URL, 1 represents to transmit data via E-mail.
*	End sign.

Table 5.7.1

The table 5.7.2 shows each confirmation message reply after setup.

Situation	Message Reply
Setup Succeeds	Username GPRS router Setup OK.
Setup Fail	Username GPRS router setup error.
WebTrac-4 is in Emergency Mode	Username in emergency, GPRS Router setup not allowed.

Table 5.7.2

Note that the message reply shown in Table 5.7.2 will only be sent to cell phone that sends the SMS to do configuration. The caller's ID of cellular phone must be activated in order to let the WebTrac-4 recognize the caller ID and to response accordingly.

5.8 Set up the phone number list

Use this SMS message to predefine the cellular number(s) in a WebTrac-4 by following the format below. You are allowed to enter the maximum of 5 cellular numbers.

Setup format: #「username」,「Password」,「Function Code」,「PH-01」,「PH-02」,「PH-03」,「PH-04」,「PH-05」*

Example：＃Username,0000,5,+886123456789,+492234567890,+866323456789, +886423456789,+886523456789*

Note that both adding and not adding the "+ "sign in front of the cellular phone number(s) are both acceptable, while the"+" sign should precede the national code.

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The table 5.8.1 describes the meaning of each segment in the message above.

Text Keyed In SMS	Description
#	Start sign.
Username	✧ Default ID of WebTrac-4. ✧ If you have changed the Username, please use the updated one.
0000	✧ Default password. ✧ If you have changed the password, please use the updated one.
5	Mode 5 defines the changes of the built-in phone number list.
+886123456789	1st cellular numbers, **PH-01**
+492234567890	2nd cellular numbers, **PH-02**
+866323456789	3rd cellular numbers, **PH-03**
+886423456789	4th cellular numbers, **PH-04**
+886523456789	5th cellular numbers, **PH-05**
*	End sign.

Table 5.8.1

The table 5.8.2 shows each confirmation message reply after setup.

Situation	Message Reply
Setup Succeeds	Username Setup OK. WebTrac-4 phone updated.
Setup Fail	Username Setup Fail.
WebTrac-4 is in Emergency Mode	Username in emergency, phone setup not allowed.

Table 5.8.2

Note1: The program will overwrite the previous contact list if the users do this setup.

Note2: The message reply shown in Table 5.8.2 will only be sent to cell phone that sends the SMS to do configuration. The caller's ID of cellular phone must be activated in order to let the WebTrac-4 recognize the caller ID and response accordingly.

5.9 Set up the intervals and times of the sending-back data

Use this command to set up the frequency of Auto Report. If you send the SMS according to the example shown below to WebTrac-4, you will have an Auto Report Message every 300 seconds and after sending 99 messages, it will stop sending, you can send a SMS message to update/renew it again, or switching off it in order to renew it. Please note that, once parking mode is activated, auto-report function is going to be disabled. And once the Parking mode is disabled, the auto-report function is going to be active again. However, the messages counter will not renew, it will retain the latest status when the auto-report was disabled.

Note1: You may limit the amount of the Auto reply messages by inputting the digits from 1 to 9998 in the 「times」 field. When you input 9999, the Auto Report Message will not stop unless you define a new Auto Report Setting.

Setup format：＃「username」,「Password」,「Function Code」,「intervals (sec)」,「times」 ＊
Example1：＃Username，0000，6，300，99＊

The table 5.9.1 describes the meaning of each segment in the message above.

Text Keyed In SMS	Description
#	Start sign.
Username	✧ Default ID of WebTrac-4. ✧ If you have changed the Username, please use the updated one.
0000	✧ Default password. ✧ If you have changed the password, please use the updated one.
6	Mode 6 defines to change the intervals and times of sending-back data
300	A constant interval of sending data
99	The amount of messages sent automatically
*	End sign.

Table 5.9.1

The table 5.9.2 shows each confirmation message reply after setup

Situation	Message Reply
Setup Succeeds	Username Setup OK. WebTrac-4 response mode setting.
Setup Fail	Username Setup Fail.
WebTrac-4 is in Emergency Mode	Username in emergency, GPS auto-report setting not allowed.

. ***Table 5.9.2***

Note that the message reply shown in Table 5.9.2 will only be sent to cell phone that sends the SMS to do configuration. The caller's ID of cellular phone must be activated in order to let the WebTrac-4 recognize the caller ID and response accordingly.

5.10 Remote Control to activate the parking mode from a distance

Use this SMS message to activate the Park function from a distance. You can just use a cellular phone to send the SMS according to the example shown below to the WebTrac-4 to activate the Park function from a distance. When the Park mode is activated and Webtrac-4 is moved with the speed of more than 2 nautical miles/hr, it will send the "Move" message containing GPS position to either the URL or 1st predefined number depending on the availability of GPRS. Note that it will only be activated when the GPS is currently fixed. The interval is 45s and the total amount of data sent will be 50.

Setup format： # 「username」,「Password」,「Function Code」 ＊

Example： ＃Username，0000，7＊

The table 5.10.1 describes the meaning of each segment in the message above.

Text Keyed In SMS	Description
#	Start sign.
Username	✧ Default ID of WebTrac-4. ✧ If you have changed the Username, please use the updated one.
0000	✧ Default password. ✧ If you have changed the password, please use the updated one.
7	Mode 7 defines the activation of parking function from distance.
*	End sign.

Table 5.10.1

The table 5.10.2 shows each confirm message reply after setup.

Situation	Message Reply
Setup Succeeds	Username Setup OK. WebTrac-4 Parking.
Setup Fail	Username GPS Time to First Fix, Parking not allowed.
WebTrac-4 is in Emergency Mode	Username in emergency, Parking not allowed.

Table 5.10.2

Note that the message reply shown in Table 5.10.2 will only be sent back to cell phone that sent the SMS to do configuration. The caller's ID of cellular phone must be activated in order to let the WebTrac-4 recognize the caller ID and response accordingly.

5.11 Set up a dual-way phone or one-way phone (monitor) mode

WebTrac-4 supports both dual-way phone and one-way phone (monitor) modes. This function allows the user to switch from dual-way phone to one-way phone mode (monitor mode) and vice versa. If you send the SMS according to the example shown below to WebTrac-4, you are going to switch WebTrac-4 from dual-way mode to one-way mode.

Setup format：＃「username」,「Password」,「Function Code」,「0: dual-way phone , 1: hidden microphone」＊

Example：＃username，0000，8，1＊

Predefined：0-> dual way phone

Please refer the detailed functions as the instructions below:

1. ***one-way phone (monitor)mode***：When a monitor phone the WebTrac-4 up, it will pick up the call automatically without ringing. The surrounding voice can be heard through hidden microphone or headset. If the headset is plugged on, the hidden microphone will not be working. Therefore, please make sure the headset is working before plugging it into WebTrac-4.

2. ***Dual-way phone mode :***When WebTrac-4 rings , press the Park button to answer the call and press it again for hung up the phone. If there is nobody to answer the phone call for more than 8 seconds, it will pick up the call, the monitor can then hear the surrounding voice through either the hidden microphone or headset. Please note that, the carrier can't hung up the phone by pressing the park button if it's picked up automatically.

The table 5.11.1 describes the meaning of each segment in the message above.

Text Keyed In SMS	Description
#	Start sign.
Username	✧ Default ID of WebTrac-4. ✧ If you have changed the Username, please use the updated one.
0000	✧ Default password. ✧ If you have changed the password, please use the updated one.
8	Mode 8 defines the switch between one-way phone and hidden microphone
1	0: one-way phone, 1: dual-way phone.
*	End sign.

Table 5.11.1

The table 5.11.2 shows each confirmation message reply after setup.

Situation	Message Reply
Setup Succeeds (one-way phone)	Username Setup OK. WebTrac-4 enable to monitor.
Setup Succeeds (dual-way phone)	Username Setup OK. WebTrac-4 disable to monitor.
Setup Fail	Username Setup Fail.
WebTrac-4 is in Emergency Mode	Username in emergency, Phone to monitor setup not allowed.

Table 5.11.2

5.12 All parameters reset to default

Use this SMS message to reset WebTrac-4 to factory default. You can just send the SMS according to the example seen below. It will overwrite all the current parameters to default.

Setup format：＃「username」，「Password」，「Function Code」＊

Example：＃Username，0000，9＊

The table 5.12.1 describes the meaning of each segment in the message above.

Text Keyed In SMS	Description
#	Start sign.
Username	✧　Default ID of WebTrac-4. ✧　If you have changed the Username, please use the updated one.
0000	✧　Default password. ✧　If you have changed the password, please use the updated one.
9	Mode 9 defines to change all the parameter to default value
*	End sign.

Table 5.12.1

The table 5.12.2 shows each confirm message reply after setup.

Situation	Message Reply
Setup Succeeds	Username Setup OK. WebTrac-4 reset to default.
Setup Fail	Username Setup Fail.
WebTrac-4 is in Emergency Mode	Username in emergency, default setup not allowed.

Table 5.12.2

5.13 Acquire the report of current position

You can send the SMS according to the example shown below. It will transmit current data to the web server (URL) at once.

Setup format：＃「username」，「Password」，「Function Code」＊

Example：＃Username，0000，10＊

The table 5.13.1 describes the meaning of each segment in the message above.

Text Keyed In SMS	Description
#	Start sign.
Username	✧　Default ID of WebTrac-4. ✧　If you have changed the Username, please use the updated one.
0000	✧　Default password. ✧　If you have changed the password, please use the updated one.
10	Mode 10 defines to transmit current data to the web server at once.
*	End sign.

__Table 5.13.1__

5.14 Imei code

Imei stands for international mobile equipment identification. We offer you a command to acquire the Imei number from WebTrac-4 via SMS. Actually, every WebTrac-4 budget has a different default Imei code. You can send the SMS according to the example shown below to check its imei number so as to register to the web server for tracking.

Setup format：＃「username」，「Password」，「Imei」＊

Example：＃Username，0000，Imei＊

The table 5.14.1 describes the meaning of each segment in the message above.

Text Keyed In SMS	Description
#	Start sign.
Username	✧ Default ID of WebTrac-4. ✧ If you have changed the Username, please use the updated one.
0000	✧ Default password. ✧ If you have changed the password, please use the updated one.
Imei	Inquiry for international mobile equipment identification of WebTrac-4
*	End sign.

Table 5.14.1

Chapters 6: Respond SMS messages

This chapter shows you how to read and understand the different response messages sent from WebTrac-4. Please note that each response message has 2 different formats in 2 different situations (Neither GPRS/uploading is available or Non-GPRS/uploading is not available). The WebTrac-4 will either upload the data to the assigned URL or E-mail address when GPRS connection is available. However, when GPRS connection or uploading is not available, it will send the SMS to the first predefined phone number instead. This is to make sure that the monitor does receive the necessary response in any case. Basically, there're 6 different situations that trigger the WebTrac-4 to response its position (Auto Report, Emergency, Park, Unpark, Move, Low Power) and are shown in the following pages.

Status	Descriptions
Auto	When the monitor sends a valid Auto Report command to WebTrac-4, it will send the information (GPS position) containing an "Auto" behind each GPRMC sentence.
Park	When either pressing the Park button or sending a SMS to the WebTrac-4 activates the Park mode, the WebTrac-4 will send the information (GPS position) containing a "Park" behind each GPRMC sentence. And the previous Auto Report mode, if there is any, will be substituted.
Unpark	When either pressing the Park button or sending a SMS to the WebTrac-4 again deactivates the Park mode, the WebTrac-4 will send the information (GPS position) containing an "Unpark" behind each GPRMC sentence. If the monitor has defined any Auto Report previously, the WebTrac-4 will recover the Auto Report mode and execute it from where it stopped.
Move	When the WebTrac-4 is in Park mode and it was moved with the speed of more than 2 Knot, it will send the information (GPS position) containing a "Move" behind each GPRMC sentence. The interval is 45s and the total amount of data sent will be 50. Meanwhile, if the monitor sends Auto Report command, it will only update the previous Auto Report parameters and the "Move" mode will not be stopped.
SOS	When the user presses the Panic button, will send the information (GPS position) containing a "SOS" behind each GPRMS sentence. If WebTrac-4 was in the "Auto" or "Park" mode, it'll be shifted to SOS mode compulsorily. And the SOS mode will not be released by any command except turn WebTrac-4 off and switch it on again.
Low-power	When WebTrac-4 detects its battery 's voltage is lower than certain level, it will send a message, "*WebTrac-4 Power lower, please to charge!*" to the 1st predefined number (Chapter 5.8). When receive this message, the WebTrac-4 will shut down after sending another 1~2 data if there is still no power supply.

6.1 Auto Report (Circular Auto Report)

6.1.1 When GPRS is available and WebTrac-4 uploads the data

If the monitor sets up WebTrac-4 to the auto report mode successfully, it will send the message shown in the example below to web server or the assigned E-mail address so as to track the target simultaneously.

Note that if WebTrac-4 cannot connect the web server or the SMTP server, it will send SMS message(s) to the first number in the contact list. The SMS message will be discussed in the next page.

Message format:

baseURL?imei=imei&RMC=GPRMC,UTCTime,Status,Latitude,N/S,Longitude,E/W,Speed,UTCDate,WebTrac-4 Status

Example:

http://www.sanav.com/eric/gprs.aspx?imei=351277000188341&RMC=GPRMC,010012,A,2458.9692,N,12125.6486,E,003.6,010205,AUTO

The table 6.1.1 describes the meaning of each segment in the message above.

Data sent to IP/domain	Description
http://www.sanav.com/eric/gprs.aspx?	Host name or IP address of web server.
imei=351277000188341	imei is a default id number of WebTrac-4.
RMC=GPRMC	GPS NMEA information from GPS receiver, including UTC time, latitude, longitude, speed, true course, etc.
010012	UTC Time: Coordinated Universal Time (zulu or Greenwich Mean Time, GMT)
A	GPS does fix the position
2458.9692,	Latitude
N	Northern or Southern direction
12125.6486	Longitude
E	Eastern or Western direction
003.6	Speed of target
010205	UTC Date: Coordinated Universal Date (zulu or Greenwich Mean Time, GMT)
Auto	Auto report status of WebTrac-4

__Table 6.1.1__

6.1.2When GPRS is NOT available and WebTrac-4 sends SMS message(s) instead

If WebTrac-4 cannot connect to the web server assigned, it will send SMS message(s) to the first number in the contact list. This is to make sure the monitor has all the information about the carrier. However, the "imei" in the format will be substituted by the username.

Message format:
username,RMC=GPRMC,UTCTime,Status,Latitude,N/S,Longitude,E/W,Speed,UTCDate,WebTrac-4 Status

Example:
username&RMC=GPRMC,010012,A,2458.9692,N,12125.6486,E,003.6,010205,AUTO

The table 6.1.2 is describing the meaning of each segment in the message above.

Text Shown In SMS	Description
username	WebTrac-4 ID.
RMC=GPRMC	GPS NMEA information from GPS receiver, including UTC time, latitude, longitude, speed, true course, etc.
010012	UTC Time: Coordinated Universal Time (zulu or Greenwich Mean Time, GMT)
A	GPS does fix the position
2458.9692,	Latitude
N	Northern or Southern direction
12125.6486	Longitude
E	Eastern or Western direction
003.6	Speed of target
010205	UTC Date: Coordinated Universal Date (zulu or Greenwich Mean Time, GMT)
Auto	Auto report status of WebTrac-4

Table 6.1.2

6.2 Emergency Response

6.2.1 When GPRS is available and WebTrac-4 uploads the data

If the carrier presses and holds the "Panic" button for more than 2 seconds, WebTrac-4 will upload the data shown in the example below to either the web server or the E-mail address depending on the router's setting, and it'll send the SMS messages to all the numbers in the contact list (maximum of 5). After the messages have been sent, WebTrac-4 will make a phone call to the first number in the contact list. If the number is busy, it'll dial the second number in the contacts list instead. This is to track and monitor the target in real time. Note that there is no other way to deactivate the Panic mode but switch the power OFF.

Message format:

baseURL?imei=imei&RMC=GPRMC,UTCTime,Status,Latitude,N/S,Longitude,E/W,Speed,UTCDate,WebTrac-4 Status

Example:

http://www.sanav.com/eric/gprs.aspx?imei=351277000188341&RMC=GPRMC,010012,A,2458.9692,N,12125.6486,E,003.6,010205,SOS

The table 6.2.1 describes the meaning of each segment in the message above.

Data sent to IP/domain	Description
http://www.sanav.com/eric/gprs.aspx?	host name or IP address of web server.
Imei=351277000188341	imei is a default id number of WebTrac-4.
RMC=GPRMC	GPS NMEA information from GPS receiver, including UTC time, latitude, longitude, speed, true course, etc.
010012	UTC Time: Coordinated Universal Time (zulu or Greenwich Mean Time, GMT)
A	GPS does fix the position
2458.9692,	Latitude
N	Northern or Southern direction
12125.6486	Longitude
E	Eastern or Western direction
003.6	Speed of target
010205	UTC Date: Coordinated Universal Date (zulu or Greenwich Mean Time, GMT)
SOS	SOS status of WebTrac-4

Table 6.2.1

6.2.2 When GPRS is NOT available and WebTrac-4 sends SMS message(s) instead

When there is no GPRS service, it will still try to connect to GPRS all the time. In the mean while, it will still send the messages to all the number in the contact list, and then make a phone call to the first numbers in the contact list at the same time. This is to track and monitor the target in real time. Note that there is no other way to deactivate the Panic mode but switch the power OFF for 10 seconds.

.

Message format:
username,RMC=GPRMC,UTCTime,Status,Latitude,N/S,Longitude,E/W,Speed,UTCDate,WebTrac-4 Status

Example:
username&RMC=GPRMC,010012,A,2458.9692,N,12125.6486,E,003.6,010205,SOS

The table 6.2.2 is describing the meaning of each segment in the message above.

Text Shown In SMS	Description
username	WebTrac-4 ID.
RMC=GPRMC	GPS NMEA information from GPS receiver, including UTC time, latitude, longitude, speed, true course, etc.
010012	UTC Time: Coordinated Universal Time (zulu or Greenwich Mean Time, GMT)
A	GPS does fix the position
2458.9692,	Latitude
N	Northern or Southern direction
12125.6486	Longitude
E	Eastern or Western direction
003.6	Speed of target
010205	UTC Date: Coordinated Universal Date (zulu or Greenwich Mean Time, GMT)
SOS	SOS status of WebTrac-4

Table 6.2.2

6.3 Park Response

6.3.1 When GPRS is available and WebTrac-4 uploads the data

If the carrier has pressed the "Park" or the commander has sent a park command to WebTrac-4 by SMS, WebTrac-4 will upload the data shown in the example below to web server or the assigned E-mail address depending on the router's setting. The monitor then knows the situation of the carrier.

Message format:

baseURL?imei=imei&RMC=GPRMC,UTCTime,Status,Latitude,N/S,Longitude,E/W,Speed,UTCDate,WebTrac-4 Status

Example:

http://www.sanav.com/eric/gprs.aspx?imei=351277000188341&RMC=GPRMC,010012,A,2458.9692,N,12125.6486,E,003.6,010205,PARK

The table 6.3.1 describes the meaning of each segment in the message above.

Data sent to IP/domain	Description
http://www.sanav.com/eric/gprs.aspx?	Host name or IP address of web server.
imei=351277000188341	imei is a default id number of WebTrac-4.
RMC=GPRMC	GPS NMEA information from GPS receiver, including UTC time, latitude, longitude, speed, true course, etc.
010012	UTC Time: Coordinated Universal Time (zulu or Greenwich Mean Time, GMT)
A	GPS does fix the position
2458.9692,	Latitude
N	Northern or Southern direction
12125.6486	Longitude
E	Eastern or Western direction
003.6	Speed of target
010205	UTC Date: Coordinated Universal Date (zulu or Greenwich Mean Time, GMT)
PARK	Park status of WebTrac-4

Table 6.3.1

6.3.2 When GPRS is NOT available and WebTrac-4 sends SMS message(s) instead

If the carrier has activated the Park function by either pressing the "Park" button or sent a park command to WebTrac-4 by SMS, WebTrac-4 will send a SMS message to the first numbers in the contact list when GPRS is not available. The monitor then knows the situation of the carrier.

Message format:
username,RMC=GPRMC,UTCTime,Status,Latitude,N/S,Longitude,E/W,Speed,UTCDate,WebTrac-4 Status

Example:
username&RMC=GPRMC,010012,A,2458.9692,N,12125.6486,E,003.6,010205,PARK

The table 6.3.2 describes the meaning of each segment in the message above.

Text Shown In SMS	Description
username	WebTrac-4 ID.
RMC=GPRMC	GPS NMEA information from GPS receiver, including UTC time, latitude, longitude, speed, true course, etc.
010012	UTC Time: Coordinated Universal Time (zulu or Greenwich Mean Time, GMT)
A	GPS does fix the position
2458.9692,	Latitude
N	Northern or Southern direction
12125.6486	Longitude
E	Eastern or Western direction
003.6	Speed of target
010205	UTC Date: Coordinated Universal Date (zulu or Greenwich Mean Time, GMT)
PARK	PARK status of WebTrac-4

Table 6.3.2

6.4 Move Response

6.4.1 When GPRS is available and WebTrac-4 uploads the data

In the case of Park mode is activated, if WebTrac-4 has been carried from the original position and its speed is more than 2 nautical miles/hr, it will upload the data shown in the example below to either the assigned web server or the E-mail address depending on the router's setting so as to track the target.

Note1: If the monitor sends Auto Report command while the WebTrac-4 is in "Move" mode, it will only update the previous Auto Report parameters and the "Move" mode will not be stopped.

Note2: If the monitor sends Park command while the WebTrac-4 is in "Move" mode, it will deactivate the "Move" and Park modes. Then the previous Auto Report will be executed if there is any.

Message format:

baseURL?imei=imei&RMC=GPRMC,UTCTime,Status,Latitude,N/S,Longitude,E/W,Speed,UTCDate,WebTrac-4 Status

Example:

http://www.sanav.com/eric/gprs.aspx?imei=351277000188341&RMC=GPRMC,010012,A,2458.9692,N,12125.6486,E,003.6,010205,MOVE

The table 6.4.1 describes the meaning of each segment in the message above.

Data sent to IP/domain	Description
http://www.sanav.com/eric/gprs.aspx?	Host name or IP address of web server.
imei=351277000188341	Imei is a default id number of WebTrac-4.
RMC=GPRMC	GPS NMEA information from GPS receiver, including UTC time, latitude, longitude, speed, true course, etc.
010012	UTC Time: Coordinated Universal Time (zulu or Greenwich Mean Time, GMT)
A	Auto report status of WebTrac-4
2458.9692,	Latitude
N	Northern or Southern direction
12125.6486	Longitude
E	Eastern or Western direction
003.6	Speed of target
010205	UTC Date: Coordinated Universal Date (zulu or Greenwich Mean Time, GMT)
MOVE	Move status of WebTrac-4

Table 6.4.1

6.4.2 When GPRS is NOT available and WebTrac-4 sends SMS message(s) instead

In the case of Park mode is activated, when WebTrac-4 is in a region without GPRS service and WebTrac-4 has been carried from the original position and its speed is more than 2 nautical miles/hr, it will send a message to the first phone numbers in the contact list.

Message format:
username,RMC=GPRMC,UTCTime,Status,Latitude,N/S,Longitude,E/W,Speed,UTCDate,WebTrac-4 Status

Example:
username&RMC=GPRMC,010012,A,2458.9692,N,12125.6486,E,003.6,010205,MOVE

The table 6.4.2 is describing the meaning of each segment in the message above.

Text Shown In SMS	Description
username	WebTrac-4 ID.
RMC=GPRMC	GPS NMEA information from GPS receiver, including UTC time, latitude, longitude, speed, true course, etc.
010012	UTC Time: Coordinated Universal Time (zulu or Greenwich Mean Time, GMT)
A	GPS does fix the position
2458.9692,	Latitude
N	Northern or Southern direction
12125.6486	Longitude
E	Eastern or Western direction
003.6	Speed of target
010205	UTC Date: Coordinated Universal Date (zulu or Greenwich Mean Time, GMT)
Move	Move status of WebTrac-4

Table 6.4.2

Chapter7   <u>Warranty</u>

Warranty Time Period and Repair Coverage

SAN JOSE NAVIGATION, INC. warrants WebTrac-4 to be free from all defects and malfunctions in materials and workmanship for a period of 12 months from the original purchase date from San Jose Navigation or authorized dealers. If the equipment functions improperly during the warranty period, San Jose Navigation will either repair or replace the unit without charge. Such repair service will include necessary adjustments, remanufacture, and replacements. The product should be returned freight-prepaid by the purchaser within valid warranty period. **Notice that you must contact San Jose Navigation for a RMA (Return Material Authorization) number before returning the goods for repair.**
Telephone assistance will also be provided during the warranty period.

Limitations

This warranty is limited only to the repair or replacement of defective parts confirmed by San Jose Navigation to be a result of faulty materials or workmanship. Instruments mechanically or physically damaged due to the following conditions are beyond our warranty:

1. **Neglect, misuse or abuse, such as a incorrect testing, installation, or operation.**
2. **Place subject in extreme environments beyond the limits of the specifications.**
3. **Subjected to disassembling, soldering, alteration, unauthorized repair, and electrical shock by nature.**
4. **Any incidental or consequential losses or damages result from the purchase.**
5. **Disaster, accident, using any unauthentic substitutive equipment or loss of any accessory that's not provided by San Jose Navigation.**

For damages caused under the above conditions, we'll contact you to discuss replacement options.

SANJOSE NAVIGATION, INC.

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TAIPEI HSIEN, TAIWAN, R.O.C.

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Chapter8　APN Table

Various GSM service providers offer different GPRS APN settings. Please check the referential tables for APN before setup. If you could not find the name(s) of your GSM service provider(s), please ask the local GSM network about the APN settings.

Australia

Operator	GPRS APN	Username	Password	DNS
Optus	internet	[blank]	[blank]	202.139.83.3, 192.65.91.129
Telstra	telstra.internet	[blank]	[blank]	139.130.4.4, 203.50.170.2
Three	3netaccess	a	a	202.124.68.130, 202.124.76.66
Vodafone	vfinternet.au	[blank]	[blank]	192.189.54.33, 210.80.58.3

Austria

Operator	GPRS APN	Username	Password	DNS
Connect Austria ONE	web.one.at	[user specific]	[user specific]	194.24.128.100, 194.24.128.102
Max Online	gprsinternet	GPRS	[blank]	213.162.64.1, 213.162.64.2
Max Online Business	business.gprsinternet	GPRS	[blank]	213.162.64.1, 213.162.64.2
Max Online Metro	gprsmetro	GPRS	[blank]	213.162.64.1, 213.162.64.2
Mobilkom A1	A1.net	gprs@a1plus.at	[blank]	194.48.124.200, 194.48.139.254
tele.ring	web	web@telering.at	web	212.95.31.11, 212.95.31.35

Belgium

Operator	GPRS APN	Username	Password	DNS
Mobistar	web.pro.be	mobistar	mobistar	212.65.63.10, 212.65.63.145
Proximus	internet.proximus.be	[blank]	[blank]	195.238.2.21, 195.238.2.22
BASE (Orange)	orangeinternet	[blank]	[blank]	-

Brasil

Operator	GPRS APN	Username	Password	DNS
Claro	claro.com.br	claro	claro	-
TIM	tim.br	tim	tim	-

Canada

Operator	GPRS APN	Username	Password	DNS
Microcell	internet.fido.ca	fido	fido	204.92.15.211

China

Operator	GPRS APN	Username	Password	DNS
China Mobile	cmnet	[blank]	[blank]	-
China Unicom	[none]	[blank]	[blank]	10.0.2.100

Croatia

Operator	GPRS APN	Username	Password	DNS
VIPNET Start	gprs0.vipnet.hr	38591	38591	-
VIPNET Pro	gprs5.vipnet.hr	38591	38591	-

Czech Republic

Operator	GPRS APN	Username	Password	DNS
Cesky Mobil (contract)	internet	[blank]	[blank]	212.67.64.2
Cesky Mobil (prepaid)	cinternet	[blank]	[blank]	212.67.64.2
Eurotel (contract)	internet	[blank]	[blank]	160.218.10.200, 160.218.43.200
Eurotel Go	gointernet	[blank]	[blank]	160.218.10.201, 194.228.2.1
Oscar (contract)	internet	[blank]	[blank]	217.77.161.130 , 217.77.161.131
Oscar (Oskarta)	ointernet	[blank]	[blank]	217.77.161.130, 217.77.161.131
T-Mobile	internet.t-mobile.cz	[blank]	[blank]	62.141.0.1, 62.141.0.2

Denmark

Operator	GPRS APN	Username	Password	DNS
TDC	internet	[blank]	[blank]	193.162.146.9, 193.162.153.31
Sonofon	[blank]	[blank]	[blank]	212.88.64.14, 212.88.64.15
Orange DK	web.orange.dk	[blank]	[blank]	212.97.206.131, 212.97.206.161

Egypt

Operator	GPRS APN	Username	Password	DNS
Click Vodafone	internet.vodafone.net	internet	internet	-
MobiNil	mobinilweb	[blank]	[blank]	-

Estonia

Operator	GPRS APN	Username	Password	DNS
EMT	internet.emt.ee	[blank]	[blank]	217.71.33.200, 217.71.32.20
RLE	internet	[blank]	[blank]	-

Finland

Operator	GPRS APN	Username	Password	DNS
Dna	internet	[blank]	[blank]	217.78.192.78, 217.78.192.22
Radiolinja	internet	[blank]	[blank]	213.161.33.200, 193.185.210.10
Sonera	internet	[blank]	[blank]	192.89.123.230, 192.89.123.231

France

Operator	GPRS APN	Username	Password	DNS
Bouygues	ebouygtel.com	[blank]	[blank]	62.201.129.99, 62.201.159.99
Bouygues (B2Bouygtel)	b2bouygtel.com	[blank]	[blank]	62.201.129.99
SFR	websfr	[blank]	[blank]	172.20.2.10, 194.6.128.4
Orange	orange.fr	orange	orange	194.051.003.056, 194.051.003.076
Orange MIB	orange-mib	mportail	mib	- (Proxy: 172.16.2.8:8000)

Germany

Operator	GPRS APN	Username	Password	DNS
D2 Vodafone	web.vodafone.de	[any]	[any]	139.7.30.125, 139.7.30.126
E-Plus	internet.eplus.de	eplus	gprs	212.023.97.2, 212.23.97.3
D1 T-Mobile	internet.t-d1.de	td1	gprs	193.254.160.1
O2 (Viag Interkom)	internet	[blank]	[blank]	195.182.096.28, 195.182.96.61

Greece

Operator	GPRS APN	Username	Password	DNS
Telestet	gnet.b-online.gr	your phone number	24680	212.152.79.19, 212.152.79.20
Vodafone GR	internet.vodafone.gr	[blank]	[blank]	213.249.17.10, 213.249.17.11
Cosmote	internet	[blank]	[blank]	195.167.065.194

Hongkong

Operator	GPRS APN	Username	Password	DNS
CSL	hkcsl or internet	[blank]	[blank]	202.84.255.1, 203.116.254.150
New World	internet	[blank]	[blank]	-
Orange	web.orangehk.com	[blank]	[blank]	-
People	internet	[blank]	[blank]	-
SmarTone	internet	[blank]	[blank]	202.140.96.51, 202.140.96.52
Sunday	internet	[blank]	[blank]	-

Hungary

Operator	GPRS APN	Username	Password	DNS
Pannon (contract)	net	[blank]	[blank]	193.225.155.254, 194.149.0.157
Pannon (flat rate)	netx	[blank]	[blank]	193.225.155.254, 194.149.0.157
Vodafone (prepaid)	vitamax.snet.internet.net	[blank]	[blank]	80.244.97.30, 80.244.96.1
Vodafone (contract)	standardnet.vodafone.hu	[blank]	[blank]	80.244.97.30, 80.244.96.1
Westel (contract)	internet	[user specific]	[user specific]	194.176.224.3, 194.176.224.1

India

Operator	GPRS APN	Username	Password	DNS
AirTel	airtelgprs.com	[blank]	[blank]	-
BPL	bplgprs.com	bplmobile	[blank]	202.169.145.34, 202.169.129.40
Orange	portalnmms	[blank]	[blank]	10.11.206.51, 10.11.206.50

Indonesia

Operator	GPRS APN	Username	Password	DNS

IM3	www.indosat-m3.net	gprs	im3	-
Indosat	satelindogprs.com	[blank]	[blank]	202.152.162.66, 202.152.162.67

Ireland

Operator	GPRS APN	Username	Password	DNS
O2 (contract)	open.internet	gprs	gprs	62.40.32.33, 62.40.32.34
O2 (prepaid)	pp.internet	gprs	gprs	62.40.32.33, 62.40.32.34
Vodafone	isp.vodafone.ie	vodafone	vodafone	-

Israel

Operator	GPRS APN	Username	Password	DNS
Cellcom	internetg	[blank]	[blank]	-
MTC-Vodafone	apn01	[blank]	[blank]	10.10.10.30
Orange	internet	[blank]	[blank]	-

Italy

Operator	GPRS APN	Username	Password	DNS
BLU Contratto	INTERNET	[blank]	[blank]	212.17.192.49, 212.17.192.49
BLU Prepagata	PINTERNET	[blank]	[blank]	212.17.192.49, 212.17.192.49
Vodafone Omnitel	web.omnitel.it	[blank]	[blank]	194.185.97.134
TIM	uni.tim.it	[blank]	[blank]	213.230.155.94, 213.230.130.222
Wind	internet.wind	[blank]	[blank]	212.245.255.2

Lithuania

Operator	GPRS APN	Username	Password	DNS
Bite GSM	banga	[blank]	[blank]	213.226.131.131, 193.219.32.13
Omnitel Lithuania	gprs.omnitel.net	[blank]	[blank]	194.176.32.129, 195.22.175.1

Luxembourg

Operator	GPRS APN	Username	Password	DNS
LUXGSM	web.pt.lu	[blank]	[blank]	194.154.192.101, 194.154.192.102

Tango	internet	tango	tango	-

Netherlands

Operator	GPRS APN	Username	Password	DNS
KPN Mobile	internet	KPN	gprs	62.133.126.28, 62.133.126.29
O2	internet	[blank]	[blank]	-
Telfort	internet	[blank]	[blank]	-
T-Mobile	internet	t-mobile	t-mobile	193.79.237.39, 193.79.242.39
Vodafone (normal)	web.vodafone.nl	vodafone	vodafone	-
Vodafone (business)	office.vodafone.nl	vodafone	vodafone	-

Malaysia

Operator	GPRS APN	Username	Password	DNS
DIGI	diginet	[blank]	[blank]	203.92.128.131, 203.92.128.132
Maxis	internet.gprs.maxis	[blank]	[blank]	202.75.129.101, 10.216.4.21
Timecel	timenet.com.my	[blank]	[blank]	203.121.16.85, 203.121.16.120
TM Touch	internet	[blank]	[blank]	202.188.0.133

Norway

Operator	GPRS APN	Username	Password	DNS
Telenor Mobil	internet	[blank]	[blank]	-
Netcom	internet.netcom.no	[blank]	[blank]	212.45.118.43, 212.45.118.44

Poland

Operator	GPRS APN	Username	Password	DNS
ERA	erainternet	erainternet	erainternet	213.158.194.1
Idea	www.idea.pl	idea	idea	194.9.223.79, 194.204.159.1
Plus GSM/Polkomtel	www.plusgsm.pl	[blank]	[blank]	212.2.96.51, 212.2.96.52

Philippines

Operator	GPRS APN	Username	Password	DNS

Globe	www.globe.com.ph	globe	globe	203.127.225.10, 203.127.225.11
Smart	internet	[blank]	[blank]	202.57.96.3, 202.57.96.4
Sun Cellular	minternet	[blank]	[blank]	[blank]

Portugal

Operator	GPRS APN	Username	Password	DNS
Optimus	internet	[blank]	[blank]	194.79.69.129
TMN	internet	[blank]	[blank]	194.65.3.20, 194.65.3.21
Vodafone (Telcel)	internet.vodafone.pt	[blank]	[blank]	212.18.160.133, 212.18.160.134

Russia

Operator	GPRS APN	Username	Password	DNS
BeeLine	internet.beeline.ru	beeline	beeline	194.190.195.66, 194.190.192.34
Megafon (NWGSM)	internet.nw	[blank]	[blank]	-
MTS	internet.mts.ru	mts	mts	213.87.0.1, 213.87.1.1
PrimTel	internet.primtel.ru	[blank]	[blank]	-

Serbia-Montenegro

Operator	GPRS APN	Username	Password	DNS
Mobtel Srbija	internet	mobtel	gprs	217.65.192.1
Telekom Srbija	gprsinternet	mts	064	195.178.38.3

Singapore

Operator	GPRS APN	Username	Password	DNS
M1	mobilenet	[blank]	[blank]	202.79.64.21, 202.79.64.26
SingTel	internet	[blank]	[blank]	165.21.100.88, 165.21.83.88
Starhub	shwapint	[blank]	[blank]	203.116.1.78, 203.116.254.150

Slovakia

Operator	GPRS APN	Username	Password	DNS
Eurotel	internet	[blank]	[blank]	-

Orange	internet	[blank]	[blank]	-

Slovenia

Operator	GPRS APN	Username	Password	DNS
Mobitel	internet	[blank]	[blank]	193.189.160.11, 193.189.160.12
Si.mobil	internet.si.mobil	[blank]	[blank]	80.95.225.230, 80.95.225.231

Spain

Operator	GPRS APN	Username	Password	DNS
Amena	internet	CLIENTE	AMENA	213.143.33.8, 213.143.32.20
Telefonica (Movistar)	movistar.es	movistar	movistar	194.179.001.100, 194.179.001.101
Vodafone (Airtel)	airtelnet.es	vodafone	vodafone	212.73.32.3, 212.73.32.67

Sweden

Operator	GPRS APN	Username	Password	DNS
Telia	online.telia.se	[blank]	[blank]	-
Vodafone Europolitan	internet.vodafone.net	[blank]	[blank]	-

Switzerland

Operator	GPRS APN	Username	Password	DNS
Orange	internet	[blank]	[blank]	213.55.128.1, 213.55.128.2
Sunrise	internet	internet	internet	212.35.35.35, 212.35.35.5
Swisscom	gprs.swisscom.ch	[blank]	[blank]	164.128.36.34, 164.128.76.39

Taiwan

Operator	GPRS APN	Username	Password	DNS
Chunghwa Telekom	emome or internet	[blank]	[blank]	10.1.1.1
Far EasTone	fetnet01	[blank]	[blank]	210.241.199.199
KG Telecom	internet	[blank]	[blank]	-
Taiwan Cellular	internet	[blank]	[blank]	-

Thailand

Operator	GPRS APN	Username	Password	DNS
AIS	internet	[blank]	[blank]	202.183.255.20, 202.183.255.21
DTAC	www.dtac.co.th	[blank]	[blank]	203.155.33.1, 203.44.144.33

Turkey

Operator	GPRS APN	Username	Password	DNS
Aria	aycell	[user specific]	[user specific]	212.156.4.1, 212.156.4.4
Turkcell	internet	[blank]	[blank]	212.252.168.240, 212.252.119.4

UK

Operator	GPRS APN	Username	Password	Prim. DNS
Vodafone UK	Internet	web	web	-
O2 UK (contract)	mobile.o2.co.uk	web	password	193.113.200.200, 193.113.200.201
O2 UK (prepaid)	payandgo.o2.co.uk	payandgo	payandgo	-
Orange UK	orangeinternet	[blank]	[blank]	158.43.192.1, 158.143.128.1
T-Mobile (One2One)	general.t-mobile.uk	Username	one2one	-
Jersey Telecom	pepper	[blank]	[blank]	212.9.0.135, 212.9.0.135

USA

Operator	GPRS APN	Username	Password	DNS
Cingular	isp.cingular	ISPDA@CINGULARGPRS.COM	CINGULAR1	66.209.10.201, 66.209.10.202
T-Mobile (Internet)	internet2.voicestream.com, internet3.voicestream.com	[blank]	[blank]	216.155.175.105, 216.155.175.106